

Inaugural Essay

on

Delirium Tremens

by

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Phila. Dec 1828.

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"O that men should put an enemy in their
mouth to steal away their brains!"

Shakspeare

Journal of the

First voyage

of the ship

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The subject of the present Thesis has been recognized and treated by medical writers under the various and vague appellations of delirium tremens, mania a potu, mania tumultuosa, brain fever and others. Instead of enumerating the objections to the above appellations, by a consideration of the vagueness and inapplicability of such terms, I shall without reference to the claims of priority or authority adopt that term which appears to me the most unexceptionable.

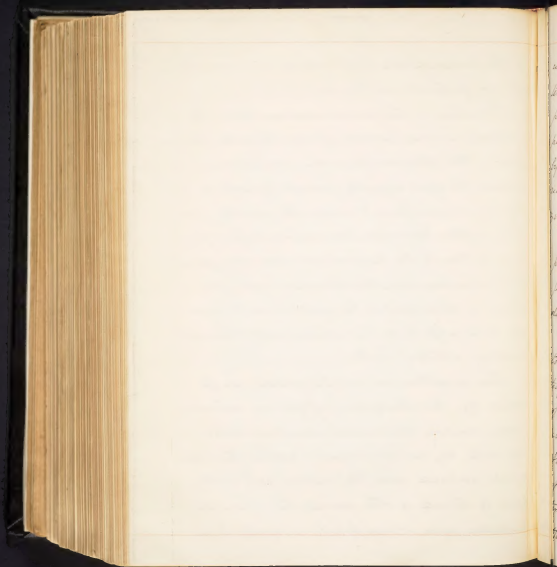
That the matter of these pages may be duly appreciated, it is proper that I should premise by stating that it is the result of personal observation made during a residence of one year in the medical department of the Philadelphia Almshouse Infirmary. Whatever diversity of sentiments may exist among those who have directed their attention to the "modos operandi" of the cause in the production of delirium tremens, they may be considered as unanimous in the opinion that it is produced



by the "sudden cessation of the habitual and immoderate use of stimulo-narcotic substances"

It is a law in the animal economy, that as the constitution becomes habituated to any stimulus the effect of that stimulus decreases — to preserve and continue the effect originally produced by excess of stimulus, it is necessary to increase the quantity of it. If the system shall have been influenced for a long period of time by the frequent and increasing quantity of stimulus and this stimulus be abruptly withdrawn or suspended, the system sinks to a degree more or less below that which would otherwise constitute a state of health.

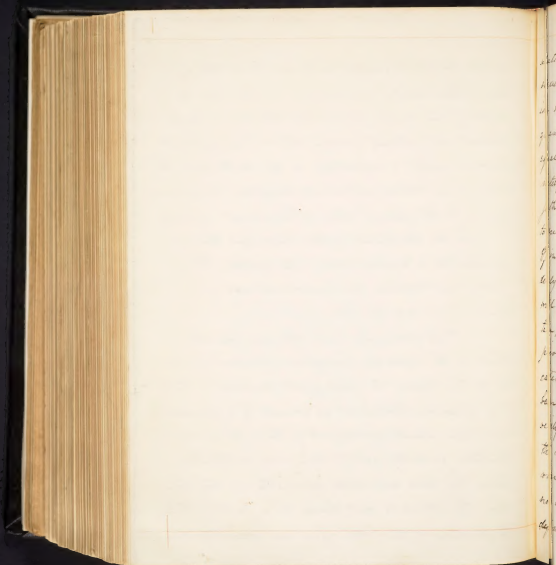
There is another law not less general nor familiar viz: that the system possesses an inherent power variously denominated *vis medicatrix*, *vis vitæ* &c, and it is equally certain that when morbid influences are made upon the natural and healthy organs by stimuli or other causes, this power or by whatever name it may be called is equal to a



certain extent to control and accommodate the system to these morbid impressions. To this law or power of the system is generally attached an independent and rational agency - what I understand by it is merely a disposition in the constitution to recover from disease and in its operations harmonizing with the general laws of the animal economy.

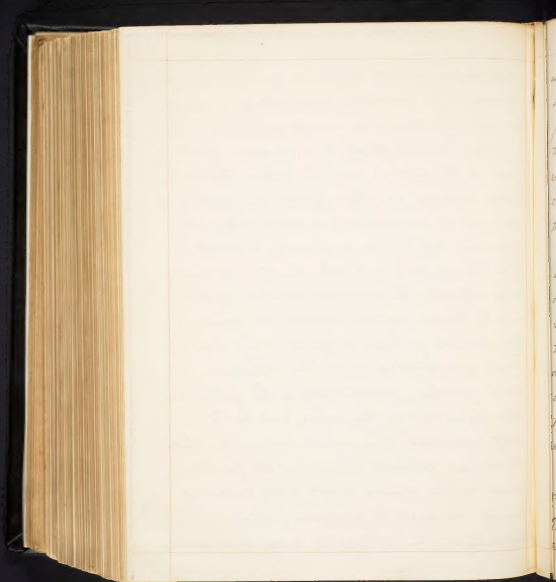
In the illustration of these laws and their application to a diseased state of the system, the effects of an habitual and immoderate use of acrid spirits may be cited.

If we administer to a stomach accustomed to the alcoholic impregnation a certain quantity of this liquid, the first effect produced is that of a deffensible stimulant as evinced by a general and puternatural excitement of the organs and functions generally and of some more particularly: from the close and ready sympathy existing between the stomach and brain in a healthy state, the functions of this latter organ are especially stimu-



ulated and subsequently depressed or impaired. In consequence of the excitability or susceptibility of impregnation becoming obtunded, it is necessary to increase the quantity of ardent spirits to produce an effect equal to the original one: the system thus alternately suffering from these opposite impregnations calls forth all its recuperatory and accommodating powers to sustain itself even in an approach to health.

If in this condition of health, the stimulus be suddenly abstracted, the cerebral and nervous system will be thrown into an irregular and excited action, because if I may so speak, it has been deprived of its artificial regulating influence: and ceteris paribus, proportionably as the system has been dependent on this power, will be the severity experienced. The precise manner in which the nervous system is affected and its functions varied in this disease is not fully understood, nor can we expect to pronounce positively and definitely on the pathology of many of its diseases.



untill its anatomy and physiology are more thoroughly investigated. However, now that it may seem as if
 "Hence, that this action is produced by the action of
 the remote cause - in other words, that the cause of the
 act and accident of present disease is the remote
 cause, and in future disease a recurrence of
 the immediate or proximate cause."

If a patient has immorally indulged in
 a great quantity of time in the use of spirituous
 liquors and particularly if in addition to his
 usual regimen in his practice more fully of
 this person a few days previous to its eruption
 or intermission, a series of symptoms will be
 developed which will endeavor to prove in
 the order in which they have most frequently
 occurred to my notice.

After the effluvia and immoderate
 discharges of the stimulus have passed
 off, the patient complains of want of appetite,
 nausea, sick head-ach; his accustomed draught



[illegible]



This state of the house although not a uniform
 state in the house, found in a few large
 families it was not very like the situation
 in the situation, indeed these conditions
 generally was just sufficient to be considered
 satisfactory. These things continued to be so
 more according to the various circumstances
 of the case & relations of the various classes
 to each other. The mother found a third
 and imaginary child he is in a very poor
 mother than his brother about him,
 who is imaginary things converse with
 his mother; he will call on the other
 sort to make him for the imagination
 of individuals he is looking for the sister
 and his followers are not independent the
 inces of his various distinct contents the
 sister will be about in room, and his
 will be demand his room, stating the
 neglect of his mother attendance to his affairs.



These latter actions are almost invariably
of an unpleasant character to the patient; in
one instance only have I seen an exception
in this respect.

As the disease progresses the cerebral sym-
ptoms, when changes take place or various
movements become aggravated. The head is un-
usually hot; the eyes are more wild. The
pulse sometimes remains as before or a
slight acceleration - the pulse is full, com-
pact and somewhat accelerated. The tongue
runs in its sheath, in violent cases I have
seen it of a brown aspect. occasionally dry and
cracked. In a few instances it has continued
moist & red. The heat is generally
decided. The stomach in general, with cer-
tain exceptions, at other times it is invariable
and subsides. It then coexists with the deli-
rium an acute inflammation of the bladder or
of other organs, the patient for the most part



7
exists in the human system. Sometimes
hemorrhages, eruptions & eruptions. Sometimes
these diseases are of short duration and are
followed by a permanent state of convalescence
ability. If the disease is not cured, however,
and a congestion wherever which often in-
creases in nervous system & is not finally
in itself.

Treatment. Various modes of treatment
have been adopted and recommended by dif-
ferent authors according to the different
views they have entertained in regard to its
etiology. It is not my intention to enter
into a discussion of the merits or demerits
of the various and arguments which have
been advanced by Theriists to support their
various views. There is however a rath-
er logical doctrine which has been advanced by
Dr. John Brown, Huxley and adopted by Dr. The-
ring and others which I believe to be correct.



and calculated to do essential harm, in so far as
 it represents an individual who
 within distinguished limitations in their na-
 tions. They consider the means to be an
 absolute criterion of excellence and a direct
 inculcating of the most to the exclusion
 of facts. A consideration of an account
 made of the same is detailed in the ap-
 pendix and the circumstances which are
 mentioned respecting the several full Street
 without reference to the evidence were
 given a heavy price and brought with
 civil tenderness.

Formerly the same matter was
 in a public petition to the City of New
 York, was universally admitted in the
 same town. This matter has
 been increased by the fact, which is now con-
 sidered the most, the same and which is a men-
 tioned by Joseph Chapman of the University of Cambridge.



with a view to the general improvement of
nature in general, under the impression to be
collected and the most successful means of
administering them as regards the various kinds,
the minutiae of the business and the most
complicated of the science with a con-
sideration of the relation to the case which
it presents the case which it.

The means of the various kinds of
may be said to be in accordance with the nature.
of the nature of the general administration.

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The various kinds of the nature of the nature.
of the administration of the nature of the nature.
of the nature of the nature of the nature.

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of Trismus, followed by full an anæsthesia of the
 jaw and adjacent skin. The time interval
 in the operation generally 45 minutes.

In some very few cases it may be deemed gene-
 rally expedient to administer anæsthesia
 the patient should be laid upon the supine
 position of the chest. Trismus will be found un-
 usually obstinate in this disease & the opera-
 tion on the tooth is but slightly influenced
 by anæsthetic fluids. Trismus & convulsions

the patient's position should be guarded
 against by mild legatives and enemata.
 Trismus. During the operation Trismus
 may arise in Trismus frequently suggested
 from cases of morbid delirium when not con-
 sidered to the chest in the old
 shower bath, with the quick reducing the
 temperature of the head and rendering the res-
 piration less violent. Have thought that Trismus
 administered after the operation will more



Minutely. In the winter season for obvious reasons
 he both was not and - cold wet clothes applied to
 the head and an occasional hot pediculation proved
 an excellent substitute.

Blisters. - A blister applied to the nape of the
 neck or sometimes to the extremities by directing
 the circulation of the blood from the brain
 toward its essential service. - A blister or mus-
 sho blister was occasionally applied over the
 epigastrium to relieve an indolent stomach
 - to awaken its sensibility to the operation
 of internal remedies. In the congestive stage
 or after persons of warm blood had succumbed, this
 use of remedies was invariably had recourse to.
 Blood-letting, 'phlebotomy' I wish to speak
 of more particularly. Bleeding was seldom prac-
 tised in this disease except there was some
 general evidence of an approaching apoplexy,
 congestion or inflammatory complication: under
 these circumstances it was looked upon rather



a choice between two evils. The abstraction of
a few ounces of blood by cups was generally
referred to depletion from the veins - there
were usually applied to the back of the neck in
superficial - to the scalp as compressions or other
important symptoms were in more than one
instance, consequent on their application to the
latter they seemed to act on the brain & the
legatures especially when the skin was not
fully manifested

now who would advocate venesection
under the idea that the disease is chronic
will find something in the history of the fol-
lowing case to border it as a disproof.

There is at present residing in the alm-
house a man of a robust frame by the name
of Charles Pericrest, who has been the sub-
ject of thirteen epileptic attacks & 7 or 8
times - in two attacks only was he blind
and in these as in all the others was he



tailed by operators - If his brain has been the
 least of influence, being even stronger, he
 at least a living evidence of the anthropologic
 power of the brain - ~~the brain is a power~~

It has been a subject of controversy whether
 "Persons in subjects obedient to this consistent
 values or increased it" have been a patient
 who to use a vulgarian has been "led into"
~~misapprehension~~ this disease, which charges of not
 "led" could probably have justified the system
 against the black. The evidence derives from
 an - more conviction of the wisdom of this
 action favors this opinion. Does not an
 accurate observation of this disease arise
 from a cause that substitute the system to not
 the power of the secondary fluid men just in
 maintaining the two indirectly to show the
 further limited power of this substitution cause?
 If then, a portion of this fluid be abstracted from
 the system this contracting power becomes more



maintained, the specific disease is destroyed, the morbid influence ceases, and the phenomena of Delirium Tremens results from the fact the disorder of the voice and the least-motivated action, towards both patients is rare in connection with Delirium Tremens.

comes down to the consideration of that case, in which the morbid influence is the most and most important indication the successful effect, which has been found a fine generalization in its case.

Opium. The state of bowels was the most common form in which this drug was administered. The amount of opium necessary to ensure success varies so much in different individuals, that no specific rule can be laid down.

The only rule by which we are to be guided, is to exhibit the narcotic at short intervals, until a disposition to sleep is manifested or until symptoms of congestion, stupor or other



contra-indicating effects or inconveniences arise, when
 its use should be suspended or discontinued and
 recourse had to other measures. It was usual to
 meet 3, 4 or even 6 grains every hour or two
 according to the violence of the disease and habits
 of the patient. After two or three doses have been
 taken, it is all important that the attendant or
 physician should carefully watch the patient
 to observe the effects of the succeeding doses.

When the tongue or throat is ^{often} combined with
 a small portion of the blue mass or calomel,
 is stimulating; these secretory purgatives will
 dispose the system to be more readily acted
 upon by the narcotic. A few drops of the op-
 timum being administered simultaneously with
 the narcotic will in some insensibile states of
 the stomach more decidedly be visible by increasing
 its irritability in the narcotic action.

In some instances when, from obstinate spasm
 or insensibility, it fails to reach the throat



impression can not be thus communicated to the system, the Opium or some one of its preparations may be exhibited in the form of an enema, thus directed the narcotic effect will sometimes be highly exercised.

After a sound and refreshing sleep of six or twelve hours has been obtained according to our Observation the patient has uniformly awakened with his mind perfectly sane or very slightly confused. Should, however, there be a tendency to a recurrence of the delirium, this should be guarded against by the exhibition of 2, 3 or more grains of Opium at bed-time.

The acetum and Tinct Opii were sometimes administered mixed with the decoction of the patients - the facility with which they may be received in this respect and the responsibility of the former to offend the stomach and disturb the head are advantages which under some circumstances it may, I suppose, over



the increased stimulus. Dr. Coates who advocates it, strong terms the "great practice states in his excellent treatise on this disease, that he has "never seen, read of, or heard of, an instance in which it (opium) was productive of an haem."

It may not be improper to remind that from inattention to the rules in administering this remedy, from the silent accumulation of 3 sheets in the system and its hidden development or from some other cause, two or three patients have brought into existence a danger as manifested by all the symptoms consequent on an overdose of this drug.

— C, an agent in the slave house was attacked with Delirium Tremens; his delirium having been violent, 20 drops of Black-draught was exhibited every hour — This treatment was ordered to be 3 days in succession, when the patient expired; his respiration now became stertorous, face livid, & billany circulation etc.



most suspended: the narcotic was immediately discontinued and recourse had to blankets dipped in hot water and applied to the bare feet; hot bricks, sinapians, blisters, stimulating enemata were also used, and in less than an hour, nature so far responded to our efforts as to enable the patient to walk about and what was most remarkable, his delirium had almost left him.

Asafoetida, Camphor Humulus Lup &c.

All these articles were more or less employed in combination with Opium or its preparations, but I am not aware that the anodyne effect has remained in this remark, perhaps the camphor should not be included, as I have seen it in some exhausted states; the system co-operating with Opium display very desirable effects.

Stimulants and Tonics. In violent vomiting I have seen a desperate prompt of brandy or whiskey



give at short intervals combine the stomach
after all the usual remedies had failed.

[illegible]

The last I find is a crucifixion kind.
One of the crucifixion crucifixion crucifixion
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There is very crucifixion in the crucifixion crucifixion crucifixion
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presence in addition to the above noted.
 Linch's instructions, the various selections
 of herbs and ginger tea are invaluable
 in restoring the digestive apparatus
 and increasing strength of the general system.

The case treated in the following cases
 have a reference to the degree of severity and
 manner of termination; in this way, the character
 and management of the disease will be
 best illustrated.

Wat Davis admitted June 13th 1827.

Symptoms on admission. Has general nervous
 mind irrational, very restless, determination of
 blood to head, redness, pain, skin dry and hot,
 feet cold, eyes injected, pulse frequent and
 hard, bowels costive. Directed Senna tea, cups
 to bleed the head, followed by cold applications -
 hot decoctions.

Evening Found his head relieved by the cups, skin
 most agreeable natural - Directed acet opii sat L.



1. The first thing I noticed when I stepped out of the car was a cold breeze. I had heard that the weather was good, but it felt like I had stepped into a different world. The air was crisp and clear, and the sun was shining brightly. I had never experienced this before, and it felt like a new beginning.

2. I met John Pluch, a man who was very friendly and welcoming. He had a warm smile and a kind voice. He told me about the town and the people, and I felt like I had found a friend. We went for a walk in the park, and I saw many beautiful flowers. The children were playing happily, and the old people were sitting on the benches, watching the world go by.

3. The next morning, I went to the market. It was a busy place, with many stalls and a lot of people. I saw fresh fruit and vegetables, and I bought some for my breakfast. The vendors were friendly and helpful, and I felt like I was part of the community. I also saw some interesting things, like old books and antiques. I was fascinated by the history of the town, and I wanted to learn more.

4. I went to the library and found a book about the town's history. It was very interesting, and I read it all day. I also found some old letters and documents, and I was amazed by the way people lived in the past. I felt like I was uncovering a hidden treasure, and I was grateful for the chance to learn about this beautiful town.

5. The day was perfect, and I felt like I had found a new home. I was surrounded by beautiful scenery and friendly people, and I was happy to be there. I had heard that the weather was good, but it felt like I had stepped into a different world. The air was crisp and clear, and the sun was shining brightly. I had never experienced this before, and it felt like a new beginning.



49.
drowsy and inclined to sleep again. Doubted if much good
feeding. Has been asleep nearly all day and is
natural.

Robt. Deacock at 28 admires March 11th

The patient has been the frequent subject of this disease.
It has been seen before. The patient used
to be very nervous. He has been very nervous
since his attack.

The patient has all the signs that characterize the
disease. He is constantly agitated, annoyed by black devils,
and is constantly complaining about his liver. He has
been by an enema last night. He is moist and
washed with a light brown fluid. Doubted if this
is or is not a state of mind.

Deacock has taken 5 doses, mind is more comfortable
this evening. Doubted the common enema, the
usual. He says that he is immediately
The patient found him in a refreshing sleep and
is not disturbed from. D.M. He awoke at noon quite
natural. Deacock is pleased at night.



Inaren. Andersson, 2027 mm. June 8th 1898.

Salmonella typhimurium and *Salmonella enteritidis*.

1. The temperature of the water is not too high.
2. The water is not too deep.

[illegible]

2. "There is a line of the ...
 3. ...
 4. ...
 5. ...

For a number of days I have been thinking of writing to you, but have been so busy that I have not had time. I have been so busy that I have not had time. I have been so busy that I have not had time.



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 and the other is the same as the
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sometimes of Selma Lemen and directed her removal
to the sea.

gymnoms. Tuba present 15) but not to surface.
old. Swells markedly. More clear in midline and
4 mm - 10 mm. note this. Tuba not.

Quercus Polatopis p. in 9. 11. 12
right - this now bathed in a proper perspiration
sweat most, muscles contracted, quite about 12.
but not little. then the only way to
get it out as if men use some specific medicine
and the medicine is a good one
and many to get the best of it
and the medicine is a good one
to get the best of it

100, 110, 120, 130, 140, 150, 160, 170, 180, 190, 200, 210, 220, 230, 240, 250, 260, 270, 280, 290, 300, 310, 320, 330, 340, 350, 360, 370, 380, 390, 400, 410, 420, 430, 440, 450, 460, 470, 480, 490, 500, 510, 520, 530, 540, 550, 560, 570, 580, 590, 600, 610, 620, 630, 640, 650, 660, 670, 680, 690, 700, 710, 720, 730, 740, 750, 760, 770, 780, 790, 800, 810, 820, 830, 840, 850, 860, 870, 880, 890, 900, 910, 920, 930, 940, 950, 960, 970, 980, 990, 1000, 1010, 1020, 1030, 1040, 1050, 1060, 1070, 1080, 1090, 1100, 1110, 1120, 1130, 1140, 1150, 1160, 1170, 1180, 1190, 1200, 1210, 1220, 1230, 1240, 1250, 1260, 1270, 1280, 1290, 1300, 1310, 1320, 1330, 1340, 1350, 1360, 1370, 1380, 1390, 1400, 1410, 1420, 1430, 1440, 1450, 1460, 1470, 1480, 1490, 1500, 1510, 1520, 1530, 1540, 1550, 1560, 1570, 1580, 1590, 1600, 1610, 1620, 1630, 1640, 1650, 1660, 1670, 1680, 1690, 1700, 1710, 1720, 1730, 1740, 1750, 1760, 1770, 1780, 1790, 1800, 1810, 1820, 1830, 1840, 1850, 1860, 1870, 1880, 1890, 1900, 1910, 1920, 1930, 1940, 1950, 1960, 1970, 1980, 1990, 2000, 2010, 2020, 2030, 2040, 2050, 2060, 2070, 2080, 2090, 2100, 2110, 2120, 2130, 2140, 2150, 2160, 2170, 2180, 2190, 2200, 2210, 2220, 2230, 2240, 2250, 2260, 2270, 2280, 2290, 2300, 2310, 2320, 2330, 2340, 2350, 2360, 2370, 2380, 2390, 2400, 2410, 2420, 2430, 2440, 2450, 2460, 2470, 2480, 2490, 2500, 2510, 2520, 2530, 2540, 2550, 2560, 2570, 2580, 2590, 2600, 2610, 2620, 2630, 2640, 2650, 2660, 2670, 2680, 2690, 2700, 2710, 2720, 2730, 2740, 2750, 2760, 2770, 2780, 2790, 2800, 2810, 2820, 2830, 2840, 2850, 2860, 2870, 2880, 2890, 2900, 2910, 2920, 2930, 2940, 2950, 2960, 2970, 2980, 2990, 3000, 3010, 3020, 3030, 3040, 3050, 3060, 3070, 3080, 3090, 3100, 3110, 3120, 3130, 3140, 3150, 3160, 3170, 3180, 3190, 3200, 3210, 3220, 3230, 3240, 3250, 3260, 3270, 3280, 3290, 3300, 3310, 3320, 3330, 3340, 3350, 3360, 3370, 3380, 3390, 3400, 3410, 3420, 3430, 3440, 3450, 3460, 3470, 3480, 3490, 3500, 3510, 3520, 3530, 3540, 3550, 3560, 3570, 3580, 3590, 3600, 3610, 3620, 3630, 3640, 3650, 3660, 3670, 3680, 3690, 3700, 3710, 3720, 3730, 3740, 3750, 3760, 3770, 3780, 3790, 3800, 3810, 3820, 3830, 3840, 3850, 3860, 3870, 3880, 3890, 3900, 3910, 3920, 3930, 3940, 3950, 3960, 3970, 3980, 3990, 4000, 4010, 4020, 4030, 4040, 4050, 4060, 4070, 4080, 4090, 4100, 4110, 4120, 4130, 4140, 4150, 4160, 4170, 4180, 4190, 4200, 4210, 4220, 4230, 4240, 4250, 4260, 4270, 4280, 4290, 4300, 4310, 4320, 4330, 4340, 4350, 4360, 4370, 4380, 4390, 4400, 4410, 4420, 4430, 4440, 4450, 4460, 4470, 4480, 4490, 4500, 4510, 4520, 4530, 4540, 4550, 4560, 4570, 4580, 4590, 4600, 4610, 4620, 4630, 4640, 4650, 4660, 4670, 4680, 4690, 4700, 4710, 4720, 4730, 4740, 4750, 4760, 4770, 4780, 4790, 4800, 4810, 4820, 4830, 4840, 4850, 4860, 4870, 4880, 4890, 4900, 4910, 4920, 4930, 4940, 4950, 4960, 4970, 4980, 4990, 5000, 5010, 5020, 5030, 5040, 5050, 5060, 5070, 5080, 5090, 5100, 5110, 5120, 5130, 5140, 5150, 5160, 5170, 5180, 5190, 5200, 5210, 5220, 5230, 5240, 5250, 5260, 5270, 5280, 5290, 5300, 5310, 5320, 5330, 5340, 5350, 5360, 5370, 5380, 5390, 5400, 5410, 5420, 5430, 5440, 5450, 5460, 5470, 5480, 5490, 5500, 5510, 5520, 5530, 5540, 5550, 5560, 5570, 5580, 5590, 5600, 5610, 5620, 5630, 5640, 5650, 5660, 5670, 5680, 5690, 5700, 5710, 5720, 5730, 5740, 5750, 5760, 5770, 5780, 5790, 5800, 5810, 5820, 5830, 5840, 5850, 5860, 5870, 5880, 5890, 5900, 5910, 5920, 5930, 5940, 5950, 5960, 5970, 5980, 5990, 6000, 6010, 6020, 6030, 6040, 6050, 6060, 6070, 6080, 6090, 6100, 6110, 6120, 6130, 6140, 6150, 6160, 6170, 6180, 6190, 6200, 6210, 6220, 6230, 6240, 6250, 6260, 6270, 6280, 6290, 6300, 6310, 6320, 6330, 6340, 6350, 6360, 6370, 6380, 6390, 6400, 6410, 6420, 6430, 6440, 6450, 6460, 6470, 6480, 6490, 6500, 6510, 6520, 6530, 6540, 6550, 6560, 6570, 6580, 6590, 6600, 6610, 6620, 6630, 6640, 6650, 6660, 6670, 6680, 6690, 6700, 6710, 6720, 6730, 6740, 6750, 6760, 6770, 6780, 6790, 6800, 6810, 6820, 6830, 6840, 6850, 6860, 6870, 6880, 6890, 6900, 6910, 6920, 6930, 6940, 6950, 6960, 6970, 6980, 6990, 7000, 7010, 7020, 7030, 7040, 7050, 7060, 70



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were found very much congested, the vessels, the
 air matter mixed with dark venous blood. In the
 surface and at the lower base of the brain there
 was a little effusion. The fifth ventricle was
 found greatly distended with pure serum. The
 three ventricles were found to contain more or
 less of the same fluid, the vessels were also congested.
 Doctor Spooner at 80, of full habit
 a milder, more moderate
 for the last few months.

Symptoms This patient has several convulsions
 before her admission; for which she had been bled
 four times, head rather warm, eyes natural
 cellular circulation languid, feet cold, pulse
 not perceptible, respiration hurried, speech in-
 distinct and incoherent.

Quoted portions of Opt. Christinthis and one
 more the same combined with mucilage, flyens
 sinapisms, whiskey to be given freely.

Evacuations somewhat improved, pulse well de-



$$f(t) = f_0 + f_1 t + f_2 t^2 + \dots + f_{n-1} t^{n-1} + f_n t^n + \dots + f_{2n-1} t^{2n-1} + f_{2n} t^{2n} + \dots$$

the same as that of the other two, but the
the same as that of the other two, but the
the same as that of the other two, but the

12. 3 O'clock. As soon as possible, I will go to the
the house. I will be there.

Asterias. Nach dem ersten Contracte, bevor
die Schwämme sich ausbreiten, ist die
Lichtschirme, unter lang. und kurz.

all-steel pipe and filled with heavy oil. The pipe is covered in the bottom - the top is filled with gas, green mixture. Green - hydrogen effusion has occurred between the scarp and the uranium. The tubes of the dense meter continued but little flow. The meter must be reset, some hydrogen gas in the tubes.



and at the base of the brain, its substance was
nervous.

General Remarks. Fat persons with short
necks and large heads are more difficult of
management than those of an opposite organiza-
tion; there is a greater disposition to congest-
ion in such cases - hence we can seldom
see by an early resort to revulsive measures.

This disease will sometimes develop itself dur-
ing an attack of fever and if not recognized,
may be mistaken for acute pharyngitis and acci-
dently treated.

The prognosis is unfavorable when there is
injection of the eyes and contraction of the pup-
ils - under these circumstances, opium should
be administered with the greatest caution.

The state of the capillary circulation should be
constantly kept in view and is more to be depend-
ed upon than the general circulation; when
the former is natural and the latter not very



active, narcotics may be administered with safety.

Convulsions I have rarely seen and I have reason to believe that they were of more frequent occurrence when the emetic treatment was in vogue. — Relapses in this disease are more mild than the original attack.

Dr. Ashmead, who resided himself (during a residence of two years in the almshouse Infirmary) of every opportunity to examine the brain in this disease, informs me, that according to the result of his observation, the congestion and effusion of the brain were in an inverse proportion; that he occasionally found an opacity of the arachnoid membrane especially at the base of the brain indicative of chronic inflammation: he further states that he has never witnessed an acute phlogosis of that organ, in patients who have died of this disease.

